

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: CORELITE

Report Number: P561597

Luminaire Tested: **SQ4-PC3-0U-100D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561597
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-0U-100D-92765-1D-UNV-STD-W-4 (3500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3992.0 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

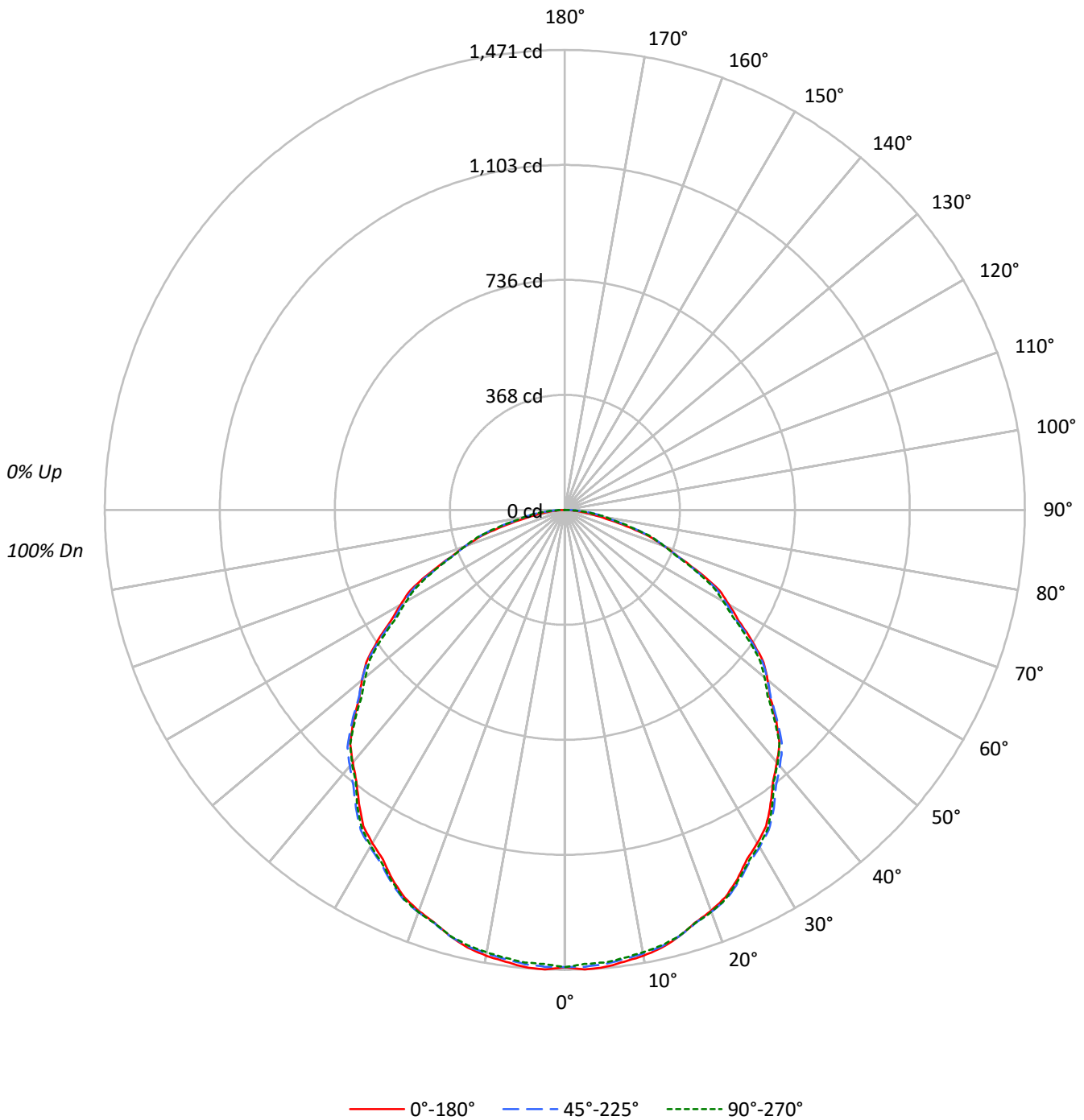
Input Watts (W): 42.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P561597

CATALOG NUMBER: SQ4-PC3-0U-100D-92765-1D-UNV-STD-W-4 (3500K)

Luminous Intensity Polar Plot





TEST NUMBER: P561597

CATALOG NUMBER: SQ4-PC3-0U-100D-92765-1D-UNV-STD-W-4 (3500K)

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	54	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13495	13495	13495
5°	13597	13509	13459
10°	13564	13500	13463
15°	13493	13493	13479
20°	13404	13444	13444
25°	13277	13373	13333
30°	13116	13274	13217
35°	12920	13118	13027
40°	12706	12886	12756
45°	12476	12564	12369
50°	12150	12150	11955
55°	11765	11612	11437
60°	11197	10972	10797
65°	10348	10141	10053
70°	9061	9134	9096
75°	7290	8063	8110
80°	5180	6838	6907
85°	3155	5738	5738



TEST NUMBER: P561597

CATALOG NUMBER: SQ4-PC3-OU-100D-92765-1D-UNV-STD-W-4 (3500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.4	3.5
10°-20°	397.3	10.0
20°-30°	601.6	15.1
30°-40°	721.2	18.1
40°-50°	735.4	18.4
50°-60°	642.0	16.1
60°-70°	459.6	11.5
70°-80°	236.7	5.9
80°-90°	59.9	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1137.3	28.5
0°-40°	1858.5	46.6
0°-60°	3235.8	81.1
0°-90°	3992.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3992.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1463	1463	1463	1463	1463	
5°	1468	1454	1459	1454	1453	139
15°	1413	1401	1413	1413	1411	398
25°	1304	1295	1314	1310	1310	600
35°	1147	1144	1165	1157	1157	717
45°	956	954	963	951	948	736
55°	731	722	722	711	711	652
65°	474	463	464	460	460	469
75°	204	214	226	228	228	221
85°	30	46	54	56	54	42
90°	0	0	0	0	0	



TEST NUMBER: P561597

CATALOG NUMBER: SQ4-PC3-0U-100D-92765-1D-UNV-STD-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1462.7	1462.7	1462.7	1462.7	1462.7
2.5°	1471.4	1458.7	1462.7	1459.3	1454.0
5°	1468.1	1453.6	1458.6	1454.5	1453.2
7.5°	1457.6	1443.0	1449.7	1447.0	1445.6
10°	1447.8	1433.2	1441.0	1438.3	1437.0
12.5°	1434.8	1421.3	1430.2	1427.5	1427.2
15°	1412.6	1400.7	1412.6	1412.6	1411.2
17.5°	1384.7	1373.8	1386.6	1387.4	1386.6
20°	1365.2	1353.3	1369.3	1367.9	1369.3
22.5°	1341.4	1331.6	1348.7	1345.2	1346.5
25°	1304.2	1295.0	1313.7	1309.7	1309.7
27.5°	1260.4	1253.7	1274.2	1269.8	1269.8
30°	1231.1	1224.5	1246.0	1240.6	1240.6
32.5°	1198.6	1194.1	1214.6	1208.1	1208.1
35°	1147.1	1144.5	1164.7	1156.6	1156.6
37.5°	1094.0	1091.7	1110.0	1100.2	1097.0
40°	1055.0	1053.7	1069.9	1059.1	1059.1
42.5°	1016.0	1014.7	1028.8	1015.8	1015.8
45°	956.2	953.5	962.9	950.7	948.0
47.5°	890.9	888.2	894.1	880.8	879.5
50°	846.5	843.8	846.5	834.3	832.9
52.5°	801.0	796.2	796.6	784.4	784.2
55°	731.4	722.1	721.9	711.0	711.0
57.5°	657.7	645.5	646.6	637.3	636.0
60°	606.8	593.5	594.6	586.4	585.1
62.5°	556.9	541.5	544.7	535.5	535.2
65°	474.0	463.4	464.5	460.5	460.5
67.5°	394.4	384.6	391.7	388.4	388.2
70°	335.9	329.3	338.6	338.6	337.2
72.5°	281.7	281.4	293.1	293.1	293.9
75°	204.5	213.8	226.2	227.5	227.5
77.5°	136.5	152.9	166.6	167.1	166.9
80°	97.5	116.1	128.7	131.3	130.0
82.5°	66.1	85.7	96.2	98.8	97.5
85°	29.8	45.7	54.2	55.5	54.2
87.5°	8.7	18.2	21.7	21.6	19.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)